

SOUND

^{Eric} Those signals, from the Soviet Satellite circling the earth were man's first "soundings" in the boundless regions of outer space.

~~_____~~ Moscow announced to the world ^{THE} ~~that the~~ first ~~exploratory step~~ into the Space Age ~~had begun...~~

The satellite was launched, to co-incide with the ^{birthday} centenary ~~birthday~~ ~~celebrations~~ of Konstantin Tsiolkovsky, the outstanding Soviet Scientist, ~~SEEN IN THESE OLD NEWSPAPER SHOTS.~~ To-day, the scientists' home is a ~~museum~~ museum. A museum that houses a man's dreams - and his blueprints ^{OF MANY YEARS AGO} for the ultimate conquest of space ~~..~~

~~_____~~ Russia and the United States ^{during} declared that/the Geophysical Year ~~_____~~

~~_____~~ they would launch man-made moons. ~~AT A TORONTO GATHERING~~ ^{AT A TORONTO GATHERING.} Soviet ~~scientists~~ scientists inspect a model of a Vanguard Rocket ~~_____~~

In America, the rocket research to launch their own satellite (expected early next year) has continued...

Here we see the tiny world being insulated against the extremes of temperature, it will encounter during its orbit - hundreds of miles above the earth. The Soviet globe was packed with scientific instruments ~~radio back secrets of the unknown...~~

^{A reconstruction of} Reconstructing the launching of the Soviet Satellite, ~~it seems definite~~ ~~that~~ ^{of a multi-stage} ~~it was done by booster~~ ~~rockets.~~ ^{rockets.} with the tiny world situated in the nose ~~rockets.~~

First, from ground level, the take-off.

Then, mile by mile - the great climb was made. Each ^{stage of the} ~~rocket~~ rocket falling away - to cut down the dead weight.

Finally, at the plotted height, 560 miles above the earth - the ^{satellite} ~~satellite~~ breaks free. ~~Man had launched a satellite, to circle the earth every ninety-five minutes -~~ ^{SENDING SIGNALS BACK.} ~~AS IT SPEEDS ON.~~

~~_____~~ ^{flashing} Around the world - scientists have plotted the course of the man-made moon - ~~_____~~ round the earth at five miles per second...

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In Britain, the satellite was tracked ~~by~~ ^{at} the Radio Astronomical Research Station of Cambridge University - where ^{the Russian} Professor Kapitza (one of the brains behind the ~~Sputnik~~ ^{Red Moon}) was a Research Professor

When the tiny ^{man-made} world began girdling the earth - the Station quickly improvised apparatus to plot its course ~~with a radio telescope...~~ ^{and}

~~here it comes,~~ ^{- APPROACHING CAMBRIDGE AT 18,000 MILES AN HOUR!} SOUND.

~~After it had passed,~~ ^{LATER} the Observatory Director, Mr Martin Ryle, had time to talk of their work. SOUND.

This is how the signals from the satellite ~~looked~~ ^{were picked up -} on its first journey across Britain..

Man had received his first message from outer space!